



**DRAFT
SITE ASSESSMENT REPORT
FOR
THE SKINNER LANDFILL SITE
WEST CHESTER, BUTLER COUNTY, OHIO**

NPL STATUS: NON-NPL

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Emergency Response Branch
26 West Martin Luther King Drive (G41)
Cincinnati, Ohio 45268

Prepared by:

WESTON SOLUTIONS, INC.

714 East Monument Drive
Dayton, Ohio 45402

Date Prepared	May 6, 2008
TDD Number	S05-0001-0803-005
Document Control Number	398-2A-ABZV
Contract Number	EP-S5-06-04
START Project Lead	Timothy J. Smith
Telephone Number	(937) 531-4400
U.S. EPA On-Scene Coordinator	Kathy Clayton

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Dayton, Ohio 45402

May 6, 2008

Prepared by: _____ Date: _____
Timothy J. Smith
WESTON START Project Lead

Approved by: _____ Date: _____
Frank Beodray
WESTON START Project Manager

Approved by: _____ Date: _____
Pamela Bayles
WESTON START Program Manager

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LIST OF ABBREVIATIONS AND ACRONYMS

CFR	Code of Federal Regulations
HASP	Health and Safety Plan
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
OEPA	Ohio Environmental Protection Agency
OSC	On-Scene Coordinator
ppm	Parts per million
START	Superfund Technical Assessment and Response Team
TCLP	Toxicity Characteristic Leaching Procedure
TDD	Technical Direction Document
TSC	Tri State Computers
U.S. EPA	United States Environmental Protection Agency
WESTON	Weston Solutions, Inc.

1.0 INTRODUCTION

The United States Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc., (WESTON®) Superfund Technical Assessment and Response Team (START) to assist U.S. EPA On-Scene Coordinators (OSCs) Mr. Steven Renninger and Ms. Kathy Clayton in performing a site assessment at Skinner Demolition and Container, 8740 Cincinnati Dayton Road, West Chester, Butler County, Ohio (Site). U.S. EPA requested that WESTON START conduct a site assessment under Technical Direction Document number S05-0001-0803-005; prepare a health and safety plan (HASP); collect samples of crushed glass and soil; collect photographic documentation; and evaluate threats to human health, welfare and the environment posed by the Site. Under the direction of U.S. EPA OSCs Renninger and Clayton, a site assessment was conducted on March 25, 2008.

This site assessment report is organized into the following sections:

- **Introduction** – Provides a brief description of the objective and scope of site assessment activities.
- **Site Background** – Describes the Site and its history.
- **Site Assessment Activities** – Discusses the methods and procedures used during the site reconnaissance and assessment.
- **Analytical Results** – Discusses the analytical results of the samples collected during the removal assessment.
- **Threats to Human Health and the Environment** – Identifies conditions at the Site that warrant a removal action under the National Oil and Hazardous Substances Pollution Contingency Plan (NCP).
- **References** – Provides a list of the references consulted in creating this report.

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

The Site is owned by Mr. Ray Skinner; who is doing business as Skinner Demolition and Container at the Site. The property also contains and is bordered to the north and east by a landfill, the Skinner Landfill, which was a previous Superfund Site; and to the south by the East Fork of Mill Creek, and south and west by a junk yard also owned and operated by Mr. Skinner. Access to the Site is limited to a private, unimproved roadway.

2.2 SITE HISTORY

In December 2007, the Ohio Environmental Protection Agency (OEPA) investigated a complaint concerning 73 one-yard boxes and a super-sack of crushed computer monitor glass that was staged outside the Site's fence, but on the Skinner Landfill property. These boxes are Department of Transportation-approved shipping containers sometimes referred to as Tri-wall, implying three-layers, 3/16-inch-thick cardboard construction. The investigation resulted in contacts with the glass waste generator, Tri State Computers (TSC), and the owner/operator of the salvage yard housing the material, Mr. Ray Skinner. The OEPA file indicates a discrepancy in the final transportation and disposal of the material placed by TSC at the Skinner Landfill. TSC's owner stated that Mr. Skinner was hired to properly dispose of the glass. Mr. Skinner stated that he was only providing TSC with courtesy storage until TSC completed renovations of a storage building on his property. Neither party claimed ownership of the computer glass. After several months of follow up and correspondence by OEPA, OEPA Division of Hazardous Waste Management finally received notice that TSC had filed for bankruptcy.

In December 2007, OEPA conducted a site assessment sampling event at the Site. Three composite

samples of the monitor glass were collected and submitted for Toxicity Characteristic Leaching Procedure (TCLP) lead analyses. The TCLP laboratory results indicated TCLP lead concentrations of the three crushed glass samples collected by OEPA contained 93, 162, and 185 parts per million (ppm) lead. These concentrations exceed the 5 ppm TCLP regulatory limit for lead listed in the 40 Code of Federal Regulations (CFR) Part 261.24, Table 1 Maximum Concentration of Contaminants for the Toxicity Characteristic. Based on these results, the crushed computer monitor glass is, therefore, characterized as hazardous waste.

On March 13, 2008, OEPA requested U.S. EPA assistance in conducting a site assessment to confirm their results in preparation for time-critical removal action at the Site.

3.0 SITE ASSESSMENT ACTIVITIES

3.1 SITE ASSESSMENT

On March 25, 2008, WESTON START member Mr. Tim Smith accompanied U.S. EPA OSC Clayton to the Site from WESTON's Miamisburg office. U.S. EPA and WESTON START met with Mr. Jeff Smith of OEPA at the Site who observed the sampling and provided technical support. The site-specific HASP prepared by START was reviewed and signed by all present. A site reconnaissance was conducted and photographs were taken. An InnovX lead analyzer was used to survey soil lead levels in close proximity to the containers of glass. Lead concentrations of 19 to 98 ppm were recorded at various locations near the boxes of crushed glass. The walls of a few of the boxes had collapsed, and failed structurally and the crushed glass contents had spilled onto the ground. The spilled glass was moved aside to provide clear access to the soil which was surveyed with the lead analyzer at two locations. Screening results in these areas were 328 and 703 ppm lead, and follow-up grab samples of soil were collected for laboratory analyses. Composite crushed glass samples were also collected from representative groups of boxes. Details of the sampling efforts are

described in more detail in the following section.

3.2 SAMPLING ACTIVITIES

On March 25, 2008, WESTON START collected two soil grab samples; one from each of the screened areas. Each sample was collected from the top half-inch of soil at each location (Figures 3.1 and 3.2) and placed in separate sample jars. Two representative composite samples were also collected from the crushed computer monitor glass from four directionally designated groups of boxes. The first crushed glass composite sample, SLF-G-01-032508, was collected from the north and east groups of boxes,; and a second composite sample, SLF-G-02-032508 , was collected from the south and west groups of boxes (Figure 3.2). Sample descriptions are summarized in the table below. The nomenclature used to identify each sample is: SLF- Skinner landfill, G-glass or S-soil followed by the sample date for reference.

Table 3-1 Skinner Landfill Site WESTON START Sample Summary March 25, 2008		
Sample ID Number	Media Sampled	Sample Description
SLF-S-01-032508	Soil	Grab sample of soil taken beneath an area of crushed glass that had spilled onto the ground in the west container area
SLF-S-02-032508	Soil	Grab sample of soil taken beneath an area of crushed glass that had spilled onto the ground in the north container area
SLF-G-01-032508	Glass	Composite sample of crushed glass from the north and east areas of containers
SLF-G-02-032508	Glass	Composite sample of crushed glass from the south and west areas of containers

Notes:

START – Superfund Technical Assessment and Response Team
WESTON – Weston Solutions, Inc.

Following the completion of sampling activities, the sample containers were decontaminated and labeled. Samples were hand-delivered by WESTON START to DataChem Laboratories, located at 4388 Glendale-Milford Road, Cincinnati, Ohio. The soil samples were tested for TCLP metals and total metals. The glass samples were submitted for TCLP metals analysis.

4.0 ANALYTICAL RESULTS

Laboratory analytical results for the collected samples presented in Table 3-2 were compared to 40 CFR, Part 261.24, Table 1 to identify exceedences. Table 3-2 summarizes the results of the four samples collected by START. The first two columns contain the soil sampling results and the second two columns contain the glass sampling results.

Table 3-2 Skinner Landfill Site WESTON START Summary of Sampling Results March 25, 2008				
Analyte	SLF-S-01-032508	SLF-S-02-032508	SLF-G-01-032508	SLF-G-02-032508
Total Lead	10 ppm	180 ppm	Not Analyzed	Not Analyzed
TCLP Barium	0.82 ppm	0.60 ppm	9.6 ppm	6.8 ppm
TCLP Lead	ND	0.34 ppm	400 ppm	240 ppm

Notes:

Red values – Exceed regulatory limit per 40 Code of Federal Regulations Part 261.24, Table 1.

ppm – parts per million

START – Superfund Technical Assessment and Response Team

TCLP – toxicity characteristic leaching procedure

WESTON – Weston Solutions, Inc.

TCLP results for all other Resource Conservation and Recovery Act metals were at or below the laboratory detection limit of 0.10 ppm. Appendix B contains the Laboratory Analytical Report.

5.0 THREATS TO HUMAN HEALTH AND THE ENVIRONMENT

Factors to be considered in determining the appropriateness of a potential removal action at a site are delineated in the NCP in 40 CFR 300.415(b) (2). A summary of the factors applicable to the Site are presented below.

- **Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants.**

Laboratory test results indicate concentrations of lead in computer monitor glass in containers and spilled onto the ground at the Site exceed criteria for a characteristic hazardous waste as defined in 40 CFR Part 261.24. Field screening and analytical results indicate that soil adjacent to the containers of glass contains elevated concentrations of lead. These results may indicate that lead is leaching from the monitor glass into surrounding soil, or particles of lead-coated glass are mixing into the top soil in the area. The resultant contaminated top soil provides an inhalation hazard that could potentially be generated in dust. Canada Geese were observed nesting in the area and could come into contact with the contaminated soil or glass. The site is not fenced in and could be accessed by people and animals.

- **Actual or potential contamination of drinking water supplies or sensitive ecosystems.**

Measurable amounts of lead contamination are already present in the soil in close proximity to the computer monitor glass which can eventually migrate vertically into the uppermost groundwater table. The east Fork of Mill Creek is located to the south less than one hundred yards away and could eventually be impacted by storm water run off from the site.

- **Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers that may pose a threat of release.**

The 74 containers of leaded computer glass vary in structural integrity. A few containers have already released leaded glass to the soil and sampling results indicate that the soil has been cross-

contaminated with lead due to proximity and contact. Several other unprotected boxes and a super-sack filled with computer monitor glass remain on-site and pose a threat of release to the environment. Analytical results confirmed that the computer glass is a characteristic hazardous waste.

- **Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.**

Future storm events will likely further damage the cardboard boxes containing the computer monitor glass. This will cause continual release of the hazardous waste to the ground, resulting in additional cross-contamination of the adjacent soil and surrounding environment.

- **The availability of other appropriate federal or state response mechanisms to respond to the release.**

OEPA requested U.S. EPA assistance in performing a time-critical removal assessment to evaluate the need for federal involvement to address imminent threats posed by the Site. Neither OEPA nor any other local government agency has adequate finances or resources to respond to a time-critical removal action to mitigate the on-site threats.

6.0 REFERENCES

Maximum Concentration of Contaminants for the Toxicity Characteristic, 40 CFR, Part 261.24, Table 1.

National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR 300.415(b) (2).

FIGURES



Butler County, Ohio

Legend

 Site Location

Figure 1-1



Prepared for:
U.S. EPA REGION V
 Contract No: EP-S5-06-04

TDD No: 398-2A-ABZV
DCN No: S05-0001-0803-005



Prepared by:
WESTON SOLUTIONS, INC.
 10200 Alliance Road, Suite 150
 Cincinnati, OH 45242

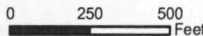
SITE LOCATION MAP
SKINNER LANDFILL SITE
WEST CHESTER, BUTLER COUNTY, OHIO
 May 6, 2008
 Scale  Feet

Figure 3-1
Skinner Soil Sampling Locations



The map illustrates the study area, which is divided into three container areas: West Container Area, North Container Area, and East Container Area. The West Container Area is located on the left, the North Container Area is in the center, and the East Container Area is on the right. Two composite sample locations are marked: SLF-F-02-032508 near the West Container Area and SLF-F-01-032508 near the North Container Area. A dashed line indicates the approximate fence line. A north arrow points upwards. The East Fork, Mill Creek is shown at the bottom, and a hillside is indicated at the top left. A gate is marked on the fence line near the East Container Area.

APPENDIX A
PHOTO DOCUMENTATION



Site: Skinner Landfill

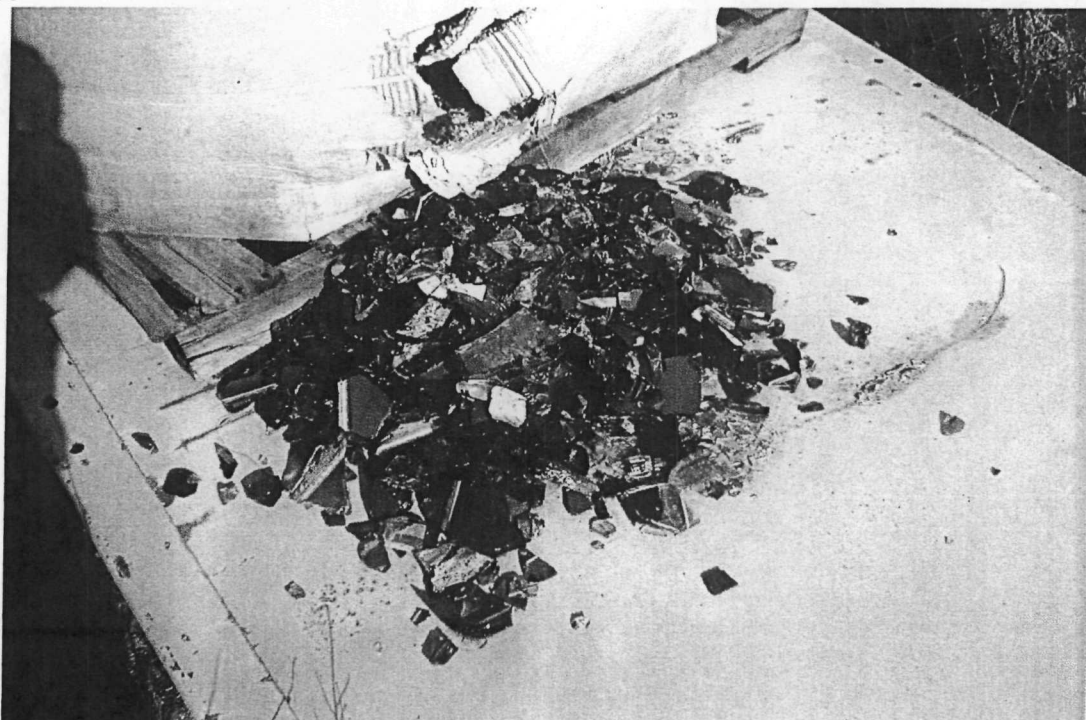
Photo Number: 01

Direction: Northwest

Subject: Cardboard one-yard containers in the east container area, south of Skinner Landfill fence

Date: March 25, 2008

Photographer: Tim Smith



Site: Skinner Landfill

Photo Number: 02

Direction: Northwest

Subject: Computer monitor glass spilled from the failed container on the right side of Photo 01

Date: March 25, 2008

Photographer: Tim Smith



Site: Skinner Landfill

Photo Number: 03

Direction: North

Subject: Cardboard containers filled with crushed computer monitor glass in the east area

Date: March 25, 2008

Photographer: Tim Smith



Site: Skinner Landfill

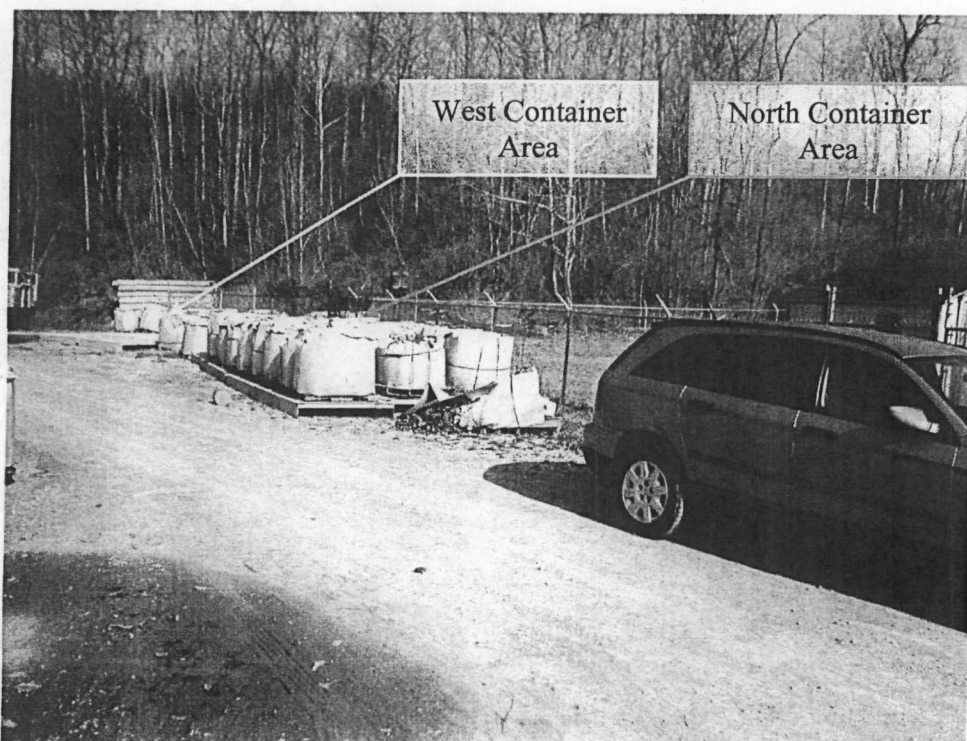
Photo Number: 04

Direction: West

Subject: North (right) and south (left) crushed computer monitor glass container areas

Date: March 25, 2008

Photographer: Tim Smith



Site: Skinner Landfill

Photo Number: 05

Direction: Northwest

Subject: North container area with west container area in the background

Date: March 25, 2008

Photographer: Tim Smith



Site: Skinner landfill

Photo Number: 06

Direction: Northwest

Subject: Spilled crushed computer monitor glass from a failed container in north area

Date: March 25, 2008

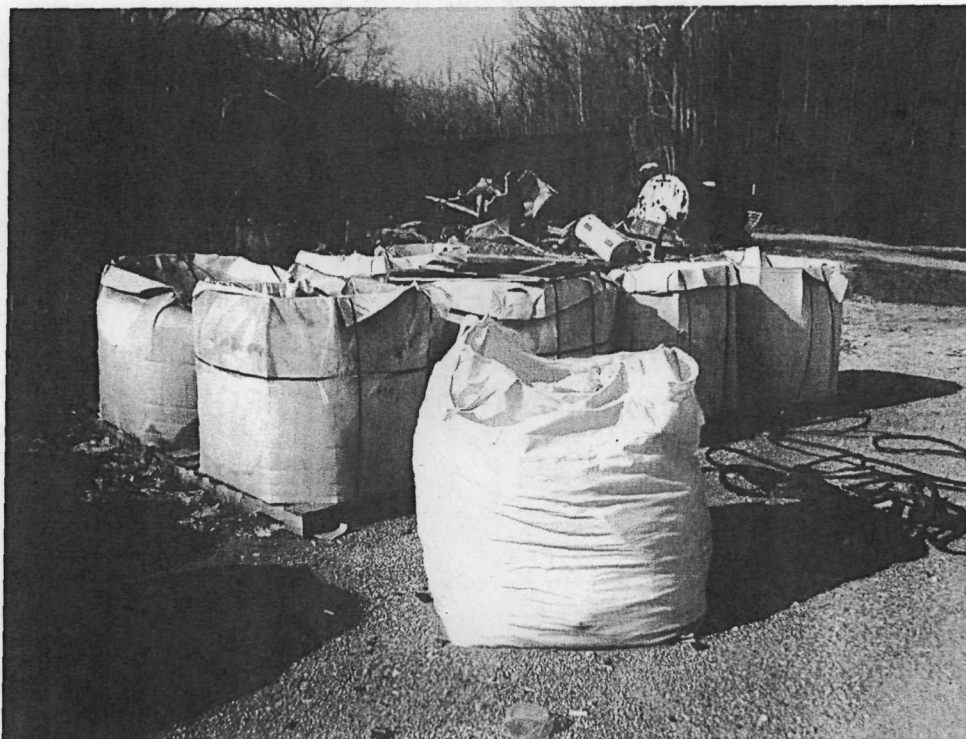
Photographer: Tim Smith

I:\WO\START3\398\38016RPT.DOC

3

398-2A-ABZV

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Site: Skinner Landfill

Photo Number: 07

Direction: Southwest

Subject: Cardboard containers and a "super sack" filled with crushed glass in the south area

Date: March 25, 2008

Photographer: Tim Smith



Site: Skinner Landfill

Photo Number: 08

Direction: East

Subject: Soil sampling location from underneath spilled glass from a failed container in the west area

Date: March 25, 2008

Photographer: Tim Smith

APPENDIX B
LABORATORY ANALYTICAL REPORT
AND DATA VALIDATION REPORT



Submitted To: Tim Smith
Weston Solutions, Inc.
714 E Monument St.
Dayton, OH 45402

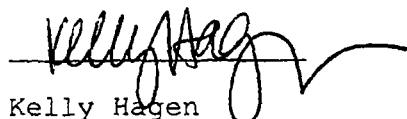
Reference Data:	TCLP Metals
Client Sample No.:	SLF-S-01-032508 through SLF-G-02-032508
P.O. No.:	Not Available
Sample Location:	Skinner Landfill
Sample Type:	Soil/Leachate
Method Reference:	1311/3010A/6010B
DCL Set ID No.:	08-S-1305
DCL Sample ID No.:	08-06877 through 08-06880
Sample Receipt Date:	3/25/2008
Preparation Date:	3/26-27/2008
Analysis Date:	3/27,28/2008

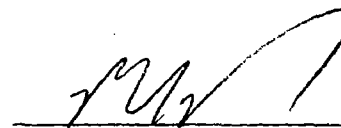
The samples were extracted in accordance with EPA method 1311 and digested in accordance with EPA method 3010A. The samples were then analyzed in accordance with EPA method 6010B using a trace ICP.

Sample condition was acceptable upon receipt except where noted.

The results are provided in the enclosed data table. Results relate only to the items tested and are not blank corrected unless indicated in the data table.

This report shall not be reproduced except in full, without the written approval of the laboratory.


Kelly Hagen
Analyst


Reviewer

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3706
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

TCLP Results mg/L (ppm)

Client #	SLF-S-01-032508	SLF-S-02-032508				
DCL #	08-06877	08-06878				RPL
Arsenic	ND	ND				0.10
Barium	0.82	0.60				0.10
Cadmium	ND	ND				0.10
Chromium	ND	ND				0.10
Lead	ND	0.34				0.10
Selenium	ND	ND				0.10
Silver	ND	ND				0.10

ND = not detected at or above the reporting limit (RPL).

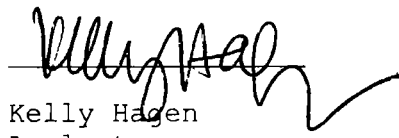
TCLP QC Results mg/L (ppm)

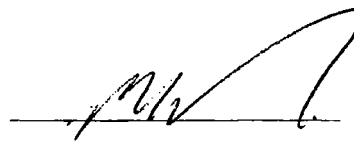
Client #		% Recovery	% Recovery	% Recovery		
DCL #	Lab Blank	LCS	08-06877MS	08-06877MSD		RPL
Arsenic	ND	117.	100.	99.		0.10
Barium	ND	115.	94.	93.		0.10
Cadmium	ND	110.	88.	87.		0.10
Chromium	ND	109.	87.	87.		0.10
Lead	ND	107.	90.	89.		0.10
Selenium	ND	122.	100.	99.		0.10
Silver	ND	105.	96.	96.		0.10

ND = not detected at or above the reporting limit (RPL).

LCS = laboratory control sample.

MS/MSD = matrix spike/matrix spike duplicate.


Kelly Hagen
Analyst


Reviewer

TCLP Results mg/L (ppm)

Client #	SLF-G-01-032508	SLF-G-02-032508				
DCL #	08-06879	08-06880				RPL
Arsenic	ND	ND				0.10
Barium	9.6	6.8				0.10
Cadmium	ND	ND				0.10
Chromium	ND	ND				0.10
Lead	400	240				0.10
Selenium	ND	ND				0.10
Silver	ND	ND				0.10

ND = not detected at or above the reporting limit (RPL).

TCLP QC Results mg/L (ppm)

Client #		% Recovery	% Recovery	% Recovery		
DCL #	Lab Blank	LCS	08-06879MS	08-06879MSD		RPL
Arsenic	ND	112.	99.	99.		0.10
Barium	ND	96.	*54.	*61.		0.10
Cadmium	ND	98.	91.	91.		0.10
Chromium	ND	95.	90.	90.		0.10
Lead	ND	98.	NA	NA		0.10
Selenium	ND	119.	98.	98.		0.10
Silver	ND	99.	94.	93.		0.10

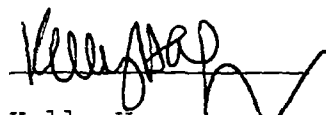
ND = not detected at or above the reporting limit (RPL).

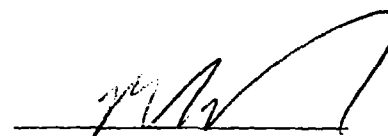
LCS = laboratory control sample.

MS/MSD = matrix spike/matrix spike duplicate.

NA = Due to spiked sample containing greater than four times the spiking amount the MS/MSD for lead the analyte can not be determined.

*Note: Low MS/MSD recoveries for barium possibly due to matrix effect.


Kelly Hagen
Analyst


Reviewer

Cooler Receipt Worksheet (Revised 10/23/01) Page 4 of 4

Set I.D.: 1305 Date/Time of Receipt: 3/25/08 14:24

Client Name: Weston Solutions

Cooler Temperature: 16.3 °C

Receipt Clerk: Steve Wilkes

- ☐ pH Criteria not Met ☐ Missing Paperwork
☐ Cooler Temperature Out of Range ☐ Incorrect Preservation
☐ Chain of Custody Error ☐ Broken/Leaking Samples
☐ Tubes/Filters Broken ☐ Incorrect Bottle Type
☐ Insufficient Sample Volume ☐ Headspace in Volatile Bottles
☐ Unable to segregate volatile samples during storage due to sample container submitted
☐ Other: _____

PH Check:	Value
Metals	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Cyanide	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Ammonia	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Total Phenolics	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
TPH (418.1)	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Oil & Grease (413.1)	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
8260/8020/8021/8015	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Other: _____	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12

☒ Samples arrived at laboratory directly from the field.

Comments: _____

Client Contact: _____ Company: _____

Date: _____ Time: _____



OK-83-1305

DataChem Laboratories

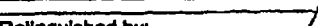
Field Chain-of-Custody Record

only
per Tim
3/25/08

Page 1 of 1Cooler Temp: _____
(Lab only)

07730

[illegible]

Relinquished by: (Signature) 	Time / Date 3/25/08	Received by: (Signature) Steve Wilen	Time / Date 3/25/08 14:24	Ship to: DataChem Laboratories 4388 Glendale - Milford Road Cincinnati, Ohio 45242 Phone: 513.733.5338 Fax: 513.733.5347
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date	
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date	
				Carrier / Airbill #
				Date / Time:



Submitted To: Tim Smith
Weston Solutions, Inc.
714 E Monument St.
Dayton, OH 45402

Reference Data:	Lead
Client Sample No.:	SLF-S-01-032508 through SLF-S-02-032508
P.O. No.:	Not Available
Sample Location:	Skinner Landfill
Sample Type:	Soil
Method Reference:	3050B/6010B
DCL Set ID No.:	08-S-1305
DCL Sample ID No.:	08-06877 through 08-06878
Sample Receipt Date:	3/25/2008
Preparation Date:	3/26/2008
Analysis Date:	3/27/2008

The samples were prepared in accordance with EPA method 3050B. Sample condition was acceptable upon receipt except where noted. The samples were then analyzed in accordance with EPA method 6010B using a trace ICP.

The results are provided in the enclosed data table. Results relate only to the items tested and are not blank corrected unless indicated in the data table.

This report shall not be reproduced except in full, without the written approval of the laboratory.

A handwritten signature in black ink, appearing to read "Kelly Hagen", with a long, sweeping horizontal line extending to the right.

Kelly Hagen
Analyst

A handwritten signature in black ink, appearing to read "T. Black", enclosed within a large, hand-drawn oval.

Reviewer

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3706
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

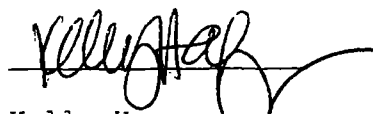
Results
mg/Kg (ppm)

Client #	DCL #	Lead
SLF-S-01-032508	08-06877	10
SLF-S-02-032508	08-06878	180
	Prep Blank	ND
% Recovery	LCS	98.
% Recovery	08-06877 MS	83.
% Recovery	08-06877 MSD	87.
RPL		5.0

ND = not detected at or above the reporting limit (RPL).

LCS = laboratory control sample.

MS/MSD = matrix spike/matrix spike duplicate.



Kelly Hagen
Analyst



Reviewer

Set I.D.: 1305 Date/Time of Receipt: 3/25/03 14:24Client Name: Weston SolutionsCooler Temperature: 16.3 °CReceipt Clerk: Steve Wilson

- ☐ pH Criteria not Met ☐ Missing Paperwork
☐ Cooler Temperature Out of Range ☐ Incorrect Preservation
☐ Chain of Custody Error ☐ Broken/Leaking Samples
☐ Tubes/Filters Broken ☐ Incorrect Bottle Type
☐ Insufficient Sample Volume ☐ Headspace in Volatile Bottles
☐ Unable to segregate volatile samples during storage due to sample container submitted
☐ Other: _____

PH Check:	Value
Metals	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Cyanide	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Ammonia	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Total Phenolics	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
TPH (418.1)	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Oil & Grease (413.1)	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
8260/8020/8021/8015	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12
Other: _____	Yes /No /NA <2 3 4 5 6 7 8 9 10 11 >12

☒ Samples arrived at laboratory directly from the field.Comments: _____

Client Contact: _____ Company: _____

Date: _____ Time: _____



DataChem Laboratories
Field Chain-of-Custody Record

Page 1 of 1
Cooler Temp: _____
(Lab only)

07130

Client Contact Name & Address: WESTON SOLUTIONS, INC. 714 E MONUMENT ST. DAYTON, OH 45403 Phone: 937 367 7475 Fax: 937.531.4401 Billing Address (if different than above):					PO Number:		<div>Lab only per TAT 3/25/08</div> <table border="1"><thead><tr><th colspan="10">Analysis Requested</th></tr><tr><th>TOTAL METALS (Pb)</th><th>TECP METALS</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr></thead><tbody><tr><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>										Analysis Requested										TOTAL METALS (Pb)	TECP METALS									X	X									X	X								
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Project Name: SKINNER LAND FILL																																																								
Sampler: (Signature) <i>[Signature]</i>																																																								
Sample Number	Site ID	Date	Time	Lab Sample Number	Preservation	Sample Type	No. of Containers																																																	
00007	SLF-3-01-032508	3/25/08	1138		1	S	X	X																																																
00008	SLF-3-02-032508		1142		1	S	X	X																																																
00009	SLF-6-01-032508		1200		1	S		X																																																
00010	SLF-6-02-032508		1215		1	S		X																																																
TH LAST ITEM																																																								
Notes: EMAIL RESULTS TO: TIM.SMITH@WESTON SOLUTIONS.COM STANDARD TAT																																																								

Relinquished by: (Signature) <i>[Signature]</i>	Time / Date 3/25/08	Received by: (Signature) Steve Wilson	Time / Date 3/25/08 14:24	Ship to: DataChem Laboratories 4388 Glendale - Milford Road Cincinnati, Ohio 45242 Phone: 513.733.5336 Fax: 513.733.5347
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date	
Relinquished by: (Signature)	Time / Date	Received by: (Signature)	Time / Date	
Carrier / Airbill #				
Date / Time:				

**SKINNER LANDFILL SITE
WEST CHESTER, OHIO
DATA VALIDATION REPORT**

Date: April 2, 2008

Laboratory: DataChem Laboratories, Inc. (DataChem), Cincinnati, Ohio

Laboratory Work Order #: 08-S-1305

Data Validation Performed By: Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

Weston Analytical Work Order #/TDD #: 20405.016.001.0399.00/S05-0001-0803-006

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation of two soil and two glass samples collected for the Skinner Landfill Site that were analyzed for total lead and Toxicity Characteristic Leaching Procedure (TCLP) Metals using U.S. Environmental Protection Agency (EPA) SW-846 methods 6010B, 7471A, and 1311.

A level II data package was requested from DataChem. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Inorganic Data Review" dated October 2004. The attachment contains the results summary report from the laboratory and hand-written qualifiers applied during data validation.

TOTAL LEAD AND TCLP METALS BY U.S. EPA SW-846 METHODS 6010B, 7470A, AND 1311

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Sample Identification	Lab Identification	Analytical Parameters	Date Collected	Date Analyzed
SLF-S-01-032508	08-06877	Total Lead and TCLP Metals	3/25/2008	03/27/2008 – 03/28/2008
SLF-S-02-032508	08-06878	Total Lead and TCLP Metals	3/25/2008	03/27/2008 – 03/28/2008
SLF-G-01-032508	08-06879	TCLP Metals	3/25/2008	03/27/2008 – 03/28/2008
SLF-G-02-032508	08-06880	TCLP Metals	3/25/2008	03/27/2008 – 03/28/2008

2. **Holding Times**

The samples were analyzed within the holding time limit of 28 days from sample collection for mercury analysis and 180 days from sample collection for all other metals analyses.

3. **Blank Results**

The laboratory blanks analyzed with the samples were free of target contamination above the reporting limit.

4. **Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the laboratory-established quality control (QC) limits.

5. **Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

DataChem analyzed two MS/MSD pairs utilizing samples from the Skinner Landfill Site as the spiked samples. All MS and MSD recoveries were within the QC limits except for as follows. The MS and MSD recoveries using sample SLF-G-01-032508 (a glass sample) had a low percent recovery for TCLP barium. The results for TCLP barium in the two glass samples were flagged "J" as estimated for this discrepancy.

6. **Overall Assessment**

The metals data are acceptable for use as qualified based on the information received.

Data Validation Report
Skinner Landfill Site
DataChem Laboratories, Inc.
Work Order #: 08-S-1305

ATTACHMENT

**DATAChem LABORATORIES, INC.
RESULTS SUMMARIES WITH QUALIFIERS**

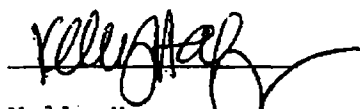
Results
mg/Kg (ppm)

Client #	DCL #	Lead
SLF-S-01-032508	08-06877	10
SLF-S-02-032508	08-06878	180
	Prep Blank	ND
% Recovery	LCS	98.
% Recovery	08-06877 MS	83.
% Recovery	08-06877 MSD	87.
RPL		5.0

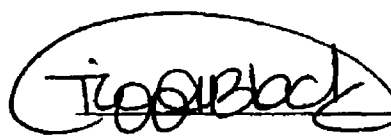
ND = not detected at or above the reporting limit (RPL).

LCS = laboratory control sample.

MS/MSD = matrix spike/matrix spike duplicate.



Kelly Hagen
Analyst



Reviewer

TCLP Results mg/L (ppm)

Client #	SLF-S-01-032508	SLF-S-02-032508				
DCL #	08-06877	08-06878				RPL
Arsenic	ND	ND				0.10
Barium	0.82	0.60				0.10
Cadmium	ND	ND				0.10
Chromium	ND	ND				0.10
Lead	ND	0.34				0.10
Selenium	ND	ND				0.10
Silver	ND	ND				0.10

ND = not detected at or above the reporting limit (RPL).

TCLP QC Results mg/L (ppm)

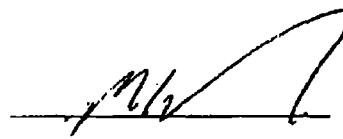
Client #		% Recovery	% Recovery	% Recovery		
DCL #	Lab Blank	LCS	08-06877MS	08-06877MSD		RPL
Arsenic	ND	117.	100.	99.		0.10
Barium	ND	115.	94.	93.		0.10
Cadmium	ND	110.	88.	87.		0.10
Chromium	ND	109.	87.	87.		0.10
Lead	ND	107.	90.	89.		0.10
Selenium	ND	122.	100.	99.		0.10
Silver	ND	105.	96.	96.		0.10

ND = not detected at or above the reporting limit (RPL).

LCS = laboratory control sample.

MS/MSD = matrix spike/matrix spike duplicate.


Kelly Hagen
Analyst


Reviewer

TCLP Results
mg/L (ppm)

Client #	SLF-G-01-032508	SLF-G-02-032508				
DCL #	08-06879	08-06880				RPL
Arsenic	ND	ND				0.10
Barium	9.6 J	6.8 J				0.10
Cadmium	ND	ND				0.10
Chromium	ND	ND				0.10
Lead	400	240				0.10
Selenium	ND	ND				0.10
Silver	ND	ND				0.10

ND = not detected at or above the reporting limit (RPL).

TCLP QC Results
mg/L (ppm)

LD
4/2/08

Client #		% Recovery	% Recovery	% Recovery		
DCL #	Lab Blank	LCS	08-06879MS	08-06879MSD		RPL
Arsenic	ND	112.	99.	99.		0.10
Barium	ND	96.	*54.	*61.		0.10
Cadmium	ND	98.	91.	91.		0.10
Chromium	ND	95.	90.	90.		0.10
Lead	ND	98.	NA	NA		0.10
Selenium	ND	119.	98.	98.		0.10
Silver	ND	99.	94.	93.		0.10

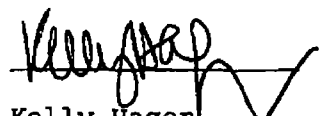
ND = not detected at or above the reporting limit (RPL).

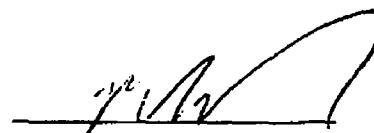
LCS = laboratory control sample.

MS/MSD = matrix spike/matrix spike duplicate.

NA = Due to spiked sample containing greater than four times the spiking amount the MS/MSD for lead the analyte can not be determined.

*Note: Low MS/MSD recoveries for barium possibly due to matrix effect.


Kelly Hagen
Analyst


Reviewer

Mercury Results TCLP Fluid 1

Client #	DCL #	ppm (mg/L)
SLF-G-01-032508	08-06879	ND
SLF-G-02-032508	08-06880	ND
	Prep Blank	ND
% Recovery	LCS/TCLP fluid 1	100.
% Recovery	08-06798 MS	103.
% Recovery	08-06798 MSD	102.
RPL		0.0005

ND = not detected at or above the reporting limit (RPL).

LCS = laboratory control sample.

MS/MSD = matrix spike/matrix spike duplicate.

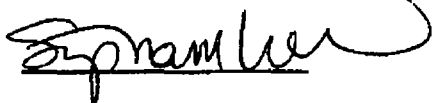
Mercury Results TCLP Fluid 2

Client #	DCL #	ppm (mg/L)
SLF-S-01-032508	08-06877	ND
SLF-S-02-032508	08-06878	ND
	Prep Blank	ND
% Recovery	LCS/TCLP fluid 2	100.
% Recovery	08-06878 MS	103.
% Recovery	08-06878 MSD	100.
RPL		0.0005

ND = not detected at or above the reporting limit (RPL).

LCS = laboratory control sample.

MS/MSD = matrix spike/matrix spike duplicate.



Stephanie Wilcox
Analyst



Reviewer